## **AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of claims:**

Claim 1 (currently amended): A packaging material of the corrugated cardboard type, comprising:

made by gluing together a plane paper layer (11);

and an auxiliary paper layer (12) arranged below the plane paper layer, with waves presenting an amplitude (a) perpendicular to the a plane of propagation of the auxiliary paper layer, and where the wave tops of the waves form a system of substantially parallel waves (10, 10'', 10''') presenting an amplitude (b) in the plane of propagation of said auxiliary paper layer (13), a;

<u>a</u> second plane paper layer (13) being arranged below said auxiliary paper layer (12), eharacterised in, that it comprises:

a second auxiliary paper layer (14) arranged below said second plane paper layer (13) and optionally a; and

an optional third plane paper layer (15) arranged below said second auxiliary paper layer, wherein and in that as far as the waves are concerned which present an amplitude perpendicular to the direction of propagation of the two auxiliary paper layers (12, 14), a have a phase displacement  $\varphi$  is provided between the waves of these layers,  $\varphi$  being in the range of

$$\frac{\pi}{4} - \frac{\pi}{3}$$

Claim 2 (currently amended): A packaging material according to claim 1, characterised in, that wherein the waves of at least one type of waves on the auxiliary paper layers (12, 14) are rather flat on the sides in such a manner that the waves are of a substantially serrated shape, viz. triangular waves with tops and bottoms which are optionally slightly rounded, or the waves can be substantially "square", viz. square waves.

Claim 3 (currently amended): A packaging material according to claim 1, eharacterised in, that the wherein a surface of each auxiliary paper layer (12, 14) follows a face substantially corresponding to the mathematical functional expression:

$$z(x, y) = a \sin \left( \frac{2\pi}{\lambda_1} x + \frac{\pi}{2} + b \sin \frac{2\pi}{\lambda_2} y \right)$$

where a and  $\lambda_1$  represent the amplitude and the wavelength, respectively, of the waves perpendicular to the plane of propagation of the auxiliary paper layer, and where b and  $\lambda_2$  represent the amplitude and the wavelength, respectively, of the waves in the plane of said auxiliary paper layer, viz. the plane of propagation, and that the ratio

$$\frac{a}{b}$$

of the amplitudes for the two types of waves may be in the range of 0.10 to 0.60, preferably 0.15 to 0.50, especially 0.22 corresponding to a = 0.5mm and b = 2.25 mm.

Claim 4 (currently amended): A packaging material according to claim 1, characterised in, that the wherein a ratio

$$\frac{\lambda_1}{\lambda_2}$$

of the wavelengths for the two types of waves is in the range of 0.09 to 0.20 and preferably is approximately 0.15 corresponding to  $\lambda_1 = 3.5$  mm and  $\lambda_2 = 23.5$  mm.

Claim 5 (currently amended): A packaging material according to claim 2, characterised in, that wherein the plane paper layers (11, 13) and the auxiliary paper layers (12, 14) are of the same thickness, preferably between 0.05 and 0.3 mm, such as 0.1 mm, and that the auxiliary paper layers (3) is of a weight of 50 to 250 g/m<sup>2</sup>/.

Claim 6 (currently amended): A packaging material according to claim 1 or 2, eharacterised in, that wherein starch-based or cold-water glue is used for the lamination of the layers.

Claim 7 (new): A packaging material according to claim 3, wherein the ratio

$$\frac{a}{b}$$

of the amplitudes for the two types of waves is preferably 0.15 to 0.50.

Claim 8 (new): A packaging material according to claim 7, wherein the ratio

$$\frac{a}{h}$$

is 0.22 corresponding to a = 0.5mm and b = 2.25 mm.

Claim 9 (new): A packaging material according to claim 4, wherein a ratio

$$\frac{\lambda_1}{\lambda_2}$$

of the wavelengths for the two types of waves is approximately 0.15 corresponding to  $\lambda_1=3.5~mm~and~\lambda_2=23.5~mm.$ 

Claim 10 (new): A packaging material according to claim 5, wherein the plane paper layers and the auxiliary paper layers are 0.1 mm thick, and the auxiliary paper layers is of a weight of 50 to  $250 \text{ g/m}^2$ /.